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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23552 7590 04/16/2008

MERCHANT & GOULD PC P.O. BOX 2903

MINNEAPOLIS. MN 55402-0903

EXAMINER
ALPHONSE, FRITZ

ART UNIT PAPER NUMBER

2112 DATE MAILED: 04/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038.529	01/03/2002	Mahesh Jayachandra	13860.2US01	6029

TITLE OF INVENTION: USER-FRIENDLY BRAHMI-DERIVED HINDI KEYBOARD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	07/16/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off tions.	or transing the Pa ierwise i	mitting the ISSU atent, advance or n Block 1, by (a	TE FEE and PUBLICA ders and notification of specifying a new co	of m	ON FEE (if requi aintenance fees w oondence address;	red). I ill be and/or	Blocks 1 through 5 st mailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
MERCHANT & P.O. BOX 2903 MINNEAPOLIS		ī	hen	Cert	ificate	of Mailing or Trans			
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				l.					(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	YES		\$720	\$300		\$0		\$1020	07/16/2008
EXAM	INER	А	RT UNIT	CLASS-SUBCLASS	П				
ALPHONS			2112	345-171000	_				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	nge of C  Indication Use of	orrespondence ion form of a Customer		ngle or a attor be p type e pa an a	3 registered patent ely,  firm (having as a gent) and the name neys or agents. If a printed.  e)  tent. If an assigna- tessignment.	membes of u	er a 2p to be is 3	ocument has been filed for
Please check the appropri	iate assignee category or	categori	es (will not be pr	inted on the patent):	۵	Individual Co	rporati	on or other private gro	up entity Government
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				o. Payment of Fee(s): (I A check is enclose Payment by credit The Director is her overpayment, to D	d. card	I. Form PTO-2038 authorized to chan	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	is. See 37	7 CFR 1.27.	☐ b. Applicant is no					
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) wi tes Paten	II not be accepted at and Trademark	I from anyone other that Office.	an th	ie applicant; a regi	stered a	attorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
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#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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10/038,529	-	01/03/2002	Mahesh Jayachandra	13860.2US01	6029	
23552	7590	04/16/2008		EXAM	UNER	
MERCHANT &	& GOUL	.D PC	ALPHONSE, FRITZ			
P.O. BOX 2903			ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55402-0903				2112		
			DATE MAILED: 04/16/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
10/038,529	JAYACHANDRA, MAHESH				
Examiner	Art Unit				
FRITZ ALPHONSE	2112				

All daims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not include herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. 
This communication is responsive to Request for Continued Examination filled on 1/31/2008.

2. 
The allowed claim(s) is/are 1-35.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

2. \[ \] I he allowed claim(s) is/are \( \frac{1.35}{1.35} \).

3. \[ \] Acknowledgment is made of a claim for foreign priority under 35 U.S.C. \( \) 119(a)-(d) or (f).

a) \[ \] All \[ \) \[ \] Some\* \[ \cdot \) \[ \] None \[ \cdot \] of the:

1. \[ \] Certified copies of the priority documents have been received.

2. \[ \] Certified copies of the priority documents have been received in Application No. \[ \] .

3. \[ \] Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \[ \] .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
     1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

# Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other \_\_\_\_\_.

/Guy J Lamarre/ Primary Examiner, Art Unit 2112 Art Unit: 2112

# DETAILED ACTION

# Continued Examination Under 37 CFR 1.114

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/31/2008 has been entered.

# Allowable Subject Matter

 After further search and thorough examination of the present application and in view of the prior art of record, claims 1-35 are found to be in condition for allowance.

# Reason for Allowance

The following is an examiner's statement of reasons for allowance: The present invention relates to a user-friendly and efficient keyboard which allows a character input system uses a real or virtual keyboard having a plurality of keys, at least some of which are assigned to at least one Brahmi-based script character, and at least one key being assigned a halant. The keyboard system may also be adapted for use with other language scripts that are derived from the Brahmi script.

To achieve this inventive goal, independent claim 1 identifies the distinct features "at least some of the keys each being assigned at least one Hindi script character, and at least one key being assigned a halant, the key assignments being spatially grouped on the keyboard according to their phonetic characteristics."

Independent claims 21, 25, 30 and 31 identify the distinct features "wherein Brahmiderived script communications may be inputted quickly and efficiently as a result of the arrangement of character keys and a simplified character set provided through use of the halant character."

Independent claim 26 identifies the distinct features "a Brahmi-derived script keyboard comprising a plurality of keys, at least some of the keys each being assigned at least one Brahmi-derived script character, and at least one key being assigned a halant, the key assignments being spatially grouped on the keyboard according to phonetic characteristics of the characters."

Independent claim 29 identify the distinct features "a group of vowel keys each being assigned a Hindi script vowel, the vowel keys comprising keys corresponding to the number-row on a standard keyboard; a first Varg group of phonetically-related consonant keys comprising keys corresponding to Q-W-E-R-T on a standard keyboard; a second Varg group of phonetically-related consonant keys comprising keys corresponding to A-S-D-F-G on a standard keyboard; a third Varg group of phonetically- related consonant keys comprising keys corresponding to Z-X-C-V-B on a standard keyboard."

3. The first cited reference, Chang (U.S. Pat. No. 6,281,884) discloses a general Chinese phonetic keyboard, wherein some of the keys being assigned a chinese phonetic characters, the key assignments being spatially grouped on the keyboard according to their phonetic characteristics. The second cited reference, Erase (U.S. Pat. No. 4,193,119) discloses a typewriter keyboard wherein each character or group of characters bears a predetermined phonetic or semantic relationship.

However, the features "Hindi script character, one key being assigned a halant" disclosed in the instant application (No. 10/038,529) are neither anticipated nor render obvious by the prior art of record.

These limitations, in conjunction with all other limitations of the base claims were not shown by, would not have been obvious over, would not have been fairly suggested by the prior art of record

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231

or faxed to: (703) 872-9306 for all formal communications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fritz Alphonse, whose telephone number is (571) 272-3813. The examiner can normally be reached on M-F, 8:30-6:00, Alt. Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis-Jacques, can be reached at (571) 272-6962.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-3824

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Information regarding the status of an application may also be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Fritz Alphonse /

Art Unit 2112

4/8/2008

/Guy J Lamarre/ Primary Examiner, Art Unit 2112